

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed is:

1. [CANCELLED]
2. [CANCELLED]
3. [CANCELLED]
4. [CANCELLED]
5. [CANCELLED]
6. (Previously Presented) The device of claim 12, wherein the truss device is fabricated with a multiplicity of apertures along the horizontal length.
7. [CANCELLED]
8. (Previously Presented) The truss device of claim 12, wherein apertures are disposed in a plurality along transverse faces of the truss.
9. [CANCELLED]
10. [CANCELLED]
11. [CANCELLED]
12. (Currently Amended) A truss device comprising at least one cord ~~chord~~ and at least one web, wherein the web comprises a central portion defining and lying within a web plane, and the web further comprises a series of web vertices, and wherein

at least one of the web vertices is formed or bent out of the web plane, and wherein the at least one ~~cord chord~~ is positioned adjacent the web at the web vertice that is formed or bent out of the web plane.

13. [CANCELLED]

14. [CANCELLED]

15. [CANCELLED]

16. [CANCELLED]

17. [CANCELLED]

18. [CANCELLED]

19. [CANCELLED]

20. (Previously Presented) The truss device of claim 12, wherein the web vertice that is formed or bent out of the web plane forms a loop.

21. (Previously Presented) The truss device of claim 20, wherein the loop defines an aperture configured to receive a reinforcement element passing longitudinally along the truss.

22. (Previously Presented) The truss device of claim 20, wherein the loop defines an aperture configured to receive a lateral reinforcement element passing perpendicular to the web plane.

23. (Previously Presented) The truss device of claim 20, wherein the loop defines a first aperture configured to receive a lateral reinforcement element passing perpendicular to the web plane, and wherein the loop defines a second aperture configured to receive a reinforcement element passing longitudinally along the truss.

24. [CANCELLED]

25. [CANCELLED]

26. [CANCELLED]

27. [CANCELLED]

28. [CANCELLED]

29. [CANCELLED]

30. [CANCELLED]

31. [CANCELLED]

32. [CANCELLED]

33. [CANCELLED]

34. [CANCELLED]

35. [CANCELLED]

36. (New) A truss comprising:

a web, wherein the web comprises a generally curvilinear waveform defining and generally lying within a web plane, the generally curvilinear waveform also defining a generally longitudinal axis of the web, the curvilinear waveform comprising a first series of web vertices adjacent a first edge of the web, and wherein one or more of the web vertices of the first series of web vertices is formed or bent out of the web plane so as to form one or more first non-planar web vertices; and

a first cord positioned adjacent the web at or adjacent the one or more first non-planar web vertices.

37. The truss of claim 36, wherein the web further comprises a second series of web vertices, wherein the second series of web vertices are positioned at a second edge of the web.

38. The truss of claim 37, wherein a second cord is positioned adjacent the web adjacent the second series of web vertices.

39. The truss of claim 37, wherein one or more of the second series of web vertices is bent or formed out of the web plane so as to form one or more second non-planar web vertices, and wherein a second cord is positioned adjacent the web at or adjacent the one or more first non-planar web vertices.

40. The truss of claim 39, wherein the one or more first non-planar web vertices and the one or more second non-planar web vertices are bent or formed out of the web plane at an angle less than 90 degrees.

41. The truss of claim 40, wherein the one or more first non-planar web vertices and the one or more second non-planar web vertices are bent or formed out of the web plane at an angle of about 45 degrees.

42. The truss of claim 36, wherein the one or more first non-planar web vertices are bent or formed out of the web plane at an angle less than 90 degrees.

43. The truss of claim 42, wherein the one or more first non-planar web vertices are bent or formed out of the web plane at an angle of about 45 degrees.

44. A space frame comprising:

a plurality of trusses, each of the trusses comprising an web and a cord, the web comprising a central portion defining a web longitudinal axis, the central portion defining and lying generally within a web plane, the web further comprising a series of web vertices, wherein at least one of the web vertices is formed or bent out of the web plane, and wherein the cord is positioned adjacent the web at the web vertex that is formed or bent out of the web plane, whereby an aperture is formed within the area bounded by the web vertex and adjacent cord, wherein the plurality of trusses are positioned adjacent each other with at least one aperture of each truss aligned with at least one aperture of an adjacent truss to form a first set of aligned apertures; and

at least one lateral reinforcement element, the at least one lateral reinforcement element passing through the first set of aligned apertures.

45. The space frame of claim 44, wherein the adjacent trusses are positioned so that the web longitudinal axes of adjacent trusses are generally parallel to each other, and the web planes of adjacent trusses are offset by about 90 degrees from each other.

46. The space frame of claim 44, wherein the at least one of the web vertices is formed or bent out of the web plane at an angle less than 90 degrees.

47. The space frame of claim 44, wherein the at least one of the web vertices is formed or bent out of the web plane at an angle of about 45 degrees.

48. The space frame of claim 44, wherein the plurality of trusses are positioned adjacent each other with a plurality of apertures of each truss aligned with a plurality of apertures of an adjacent truss to form multiple sets of aligned apertures; and further comprising:

a plurality of lateral reinforcement elements, the plurality of lateral reinforcement elements each passing through the one or more of the multiple sets of aligned apertures